

HARSHAW/FILTROL

CODE: 15237

MATERIAL SAFETY DATA SHEET
(Similar to OSHA Form 20)

PRODUCT NAME
Nickel Carbonate

H-33-84-WP

DATE: 08/17/84

SECTION I -- IDENTIFICATION

SUPPLIER'S NAME Harshaw/Filtrol Partnership

EMERGENCY TELEPHONE 216/292-9200

ADDRESS 30100 Chagrin Blvd.
Cleveland, Ohio 44124

CHEMICAL NAME Nickel Carbonate

CAS No. 3333-67-3

U.N. No. Not applicable

FORMULA $2\text{NiCO}(3)3\text{Ni}[\text{OH}](2)4\text{H}_2\text{O}$

D.O.T. CLASSIFICATION Not regulated

SECTION II -- HAZARDOUS INGREDIENTS OF MIXTURES

Material or Component

%

Threshold Limit Value

Not applicable

SECTION III -- PHYSICAL DATA

BOILING POINT Not applicable

MELTING POINT Not applicable

SPECIFIC GRAVITY ($\text{H}_2\text{O}=1$) 2.6

VAPOR PRESSURE Not applicable

VAPOR DENSITY ($\text{Air}=1$) Not applicable

SOLUBILITY IN H_2O (% by Wt.) Slightly soluble

VOLATILES BY VOLUME Not applicable

EVAPORATION RATE (Butyl Acetate=1)
Not applicable

APPEARANCE AND ODOR Green powder; odorless

SECTION IV -- FIRE AND EXPLOSION DATA

Not a fire or explosion hazard.

SECTION V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1 mg/m^3 as Ni TWA (ACGIH, 1984)

EFFECTS OF OVEREXPOSURE

Eye contact causes irritation.

Skin contact causes irritation and may cause sensitization or allergic skin reactions which may be accentuated by heat and humidity.

Inhalation of dust causes irritation of upper respiratory tract. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath or wheezing.

NOTE: The insoluble nickel compound(s) in this product have been determined to cause cancer in laboratory animals. No conclusive evidence of human carcinogenicity has been found to date. Nickel metal, nickel oxide and nickel carbonate are listed in the National Toxicology Program's Third Annual Report on Carcinogens, 1983, and the International Agency for Research on Cancer Monograph, Vol. VI, 1976.

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EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin contact: Immediately wash skin with soap and plenty of water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

— DATE: 08/17/84 — SECTION VI -- REACTIVITY DATA — CODE: 15237 —

CONDITIONS CONTRIBUTING TO INSTABILITY None expected

INCOMPATIBILITY None expected

HAZARDOUS DECOMPOSITION PRODUCTS None expected

— SECTION VII -- SPILL OR LEAK PROCEDURES —

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

If not contaminated, scoop up for reuse. If contaminated, scoop or vacuum into container for disposal. Avoid dusting.

WASTE DISPOSAL METHOD Dispose of in accordance with Federal, state and local laws.

— SECTION VIII -- PROTECTIVE EQUIPMENT —

VENTILATION General; local exhaust ventilation as necessary to control dust.

PERSONAL PROTECTIVE EQUIPMENT

Chemical goggles.

Rubber or neoprene gloves

A NIOSH/MSHA approved respirator as necessary

— SECTION IX -- SPECIAL PRECAUTIONS —

Avoid breathing dust.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Keep container closed.

— SECTION X -- PERSONNEL SAMPLING PROCEDURE —

Refer to NIOSH Manual of Analytical Methods, 2nd Edition, Method S206 for information on monitoring for airborne materials containing nickel.

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